

ENVIRONMENTAL ASSESSMENT FORM

Hillsboro, Illinois

May 13 & 14, 1982

US EPA RECORDS CENTER REGION 5



486161

1. Plant Location:

East Highway 16
Hillsboro, Illinois 62049
Montgomery County

2. Historical Overview, date built, acquired, expanded - products manufactured - number of employees.

Facility constructed in 1910 by Eagle-Picher to produce Leaded Zinc Oxide from the locally mined Zinc Sulfide. A sulfuric acid facility was included in the operations. The acid plant operated until 1930. The buildings and tanks and piping were razed in 1944.

Sherwin-Williams purchased the facility in late 1980.

3. Description of facility, etc.:

The facility is located on 137.13 acres of land. There are sixteen (16) buildings on the site. The closest resident is one-quarter mile distance from the operating equipment. The nearest school is one-half of a mile away.

4. Current Products Manufactured:

Zinc Oxide - 20,000,000 pounds in 1982 (capacity 30,000,000 pounds per year)

5. Current number of employees:

65 hourly	Labor Unions - Steel Workers
16 salaried	AFL-CIO

AIR QUALITY CONCERNS

1. How many Air Permits have been issued for this plant?

Two Permits issued. One for a Zinc Production Facility and the other for Zinc Oxide Muffle Furnaces.

2. How do you manage renewals and applications for new installations?

Renewals and applications for new installations are prepared by site personnel and directed to the Illinois Environmental Protection Agencies.

The Illinois EPA sends a notice to the site several months prior to expiration requesting a renewal application be processed.

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3. Describe all Regulatory agency citations, or citizen complaints for visible emissions or odors.

Since 1978 there have been several complaints as a result of visible emissions from the muffle furnaces or the rotary kiln. These complaints were originated by residents living adjacent to the plant.

4. How do you rate the effectiveness of the Air Quality Control measures in use at this site?

It was quite evident that dust collectors and controls on conveyors and transfer systems, packaging equipment, and processing equipment left much to be desired. Roofs of the buildings, the yard areas, all gave evidence of significant fugitive emissions.

A real need exists for effective control of dust throughout the operation. Point of operation, dust collectors were needed at numerous locations. The equipment used to convey the products was in need of major maintenance to prevent spillage and leaking.

WATER QUALITY CONCERNS

1. Characterize your Process effluent:

Water is not used in the process for other than as coolant in a quench tank. Water is only added to the quench tank as it evaporates. There is only an open supply line with no return or drain on the quench tank.

2. Where is effluent discharged?

There is no effluent. Sanitary waste and the drainage from the laboratory sinks is handled in a internal septic system. No one on the site was familiar with the septic system as to location, size or design. (Lester Roemelin, who has been at the site since 1941, has no information about the system. There are no drawings. There has not been any problems with malfunctioning of the system).

3. What limitations are imposed by the Sewer Use Ordinance? Are changes anticipated in the near future?

No discharge to a Publicly Owned Treatment Works.

4. What is the surcharge rate?

N.A.

5. Annual surcharge cost.

There are no Surcharges. Water is purchased from the municipality of Hillsboro at a rate of approximately \$600 per month.

ENVIRONMENTAL ASSESSMENT FORMS - Hillsboro, IllinoisSUPERFUND CONCERNS1. Do you have a program to report releases to the environment?

No formal program. In the event of a spill, Corporate Environmental, Health Safety and Regulatory Services would be contacted for advice and guidance.

2. Describe any on-site disposal practices of previous years.

Residue from the operations have been disposed on the site for the many years of manufacturing zinc oxide. These residues have beads dumped in the southwest corner of the site. There are indications that some of the area was capped with soil.

At the present time, a pond exists in the southwest corner of the site. This pond was created some 20 years ago by erecting an earthen dam resulted in stormwater accumulating into a pond.

In 1970, the dam was breached and the level of the pond lowered significantly. At the present time, the pond is approximately 20' x 50' in size. Depth cannot exceed 2-3 feet.

NOISE CONCERNS1. Describe all complaints or citations from neighbors or Regulatory Agencies.

None.

PLANT ORGANIZATION

Provide name, title and phone number of the person responsible for the following concerns:

1) Air Quality	The responsibilities for Air,
2) Wastewater Management	Water, Solid Waste and Super-
3) Solid Waste	fund have been assigned to:
4) Superfund Reporting	Lester O. Roemelin (217) 532-3971

SUMMARY ITEMS - RECOMMENDATIONS

1. The pond at the southwest corner of the site creates a serious pollution problem. The breaching of the dam permits the contaminated water to enter the creek. This is a violation of the Illinois Water Pollution regulations. This defect should be corrected.

- A) Eliminate the pond
- B) Rebuild the dam to eliminate the discharge of pond water into the creek.

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2. The large area adjacent to the pond that has been built up with residues from the operations over a period of 50 to 60 years is a potential source for contaminating ground water. This area should be capped with soil and seeded to minimize the penetration of stormwater.
3. The 20,000 gallon storage that contains fuel oil should be emptied or the tank diked.
4. The piles of dross and furnace residue should be treated as recycable feedstock and not as a waste.
5. The undefined septic system is a potential hazard. An effort should be made to determine the needed data to evaluate the system.
6. Fugitive emissions from the operations indicate the need for more effective control of the product as it flows through the process. (See Item 4 under Air Quality Concerns).

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